

VIBRACORE LOG

Project: <u>TOWN OF PALM BEACH</u>		Core No: <u>8</u>	
Coordinates:		Date: <u>12-16-87</u>	Water Depth <u>38'</u> NGVD
N = <u>858456.0</u>		Start Time <u>1251</u>	Driller <u>M.L. CLARKE</u>
E = <u>818514.9</u>		End Time <u>1300</u>	Client Rep. <u>FRED KAUB</u>

	Elev.	Depth	Legend	Description	Samp. No.	Remarks
Core Diam. <u>3.0"</u>		0		GREY SAND (10YR 7/1)		
Length of Barrel <u>20'</u>						
Penetration Depth <u>20'</u>						
Length Recovered <u>19'7"</u>					2.0'	(SP)
Length Retained <u>19'7"</u>						
Remarks: PENETRATION TIME - 9 MIN						
Support Vessel <u>G.W. PIERCE</u>		5				
Positioning System <u>TRISPOUNDER</u>						
Positioning Remarks:					8.0'	< 2% SHELL & CORAL FRAG (SP)
Weather <u>CLEAR</u>		10				
Wind Dir: <u>NW</u>						
Est. Speed <u>15-20K</u>						
Waves Dir: <u>NW</u>						
Height <u>1-2'</u>				COARSE SAND & SHELL FRAG	13.8'	(SP)
Current Dir: <u>N/A</u>		15		GREY SAND (10YR 7/1)		
Est. Speed: _____						
Analysis By: <u>FK</u>				GREY SAND (10YR 7/1) w/ SHELL & CORAL FRAGMENTS		
Date: <u>12/20/87</u>						
Analysis Method: VISUAL LOG MECHANICAL SIEVE				GREY SAND (10YR 7/1)	19.0'	(SP)
		20				

GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	7					8					8				
SAMPLE DEPTH (FT)	19.0					2.0					8.0				
U.S.C.S.	SP					SP					SP				
DESCRIPTION															
DRY SAMPLE WT (GRAMS)	262.93					181.71					180.62				
SAMPLE WT AFTER WASH	257.52					176.95					177.34				
SIEVE	PHI	MESH													
SIZE	SIZE	SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		
5	-2.00	4	6.91	2.63	97.37	,	0.00	0.00	100.00	,	0.42	0.23	99.77	,	
						,				,				,	
7	-1.50	2.8	7.93	3.02	96.98	,	0.10	0.06	99.94	,	0.51	0.28	99.72	,	
						,				,				,	
10	-1.00	2	8.64	3.29	96.71	,	0.18	0.10	99.90	,	0.64	0.35	99.65	,	
						,				,				,	
14	-0.50	1.4	10.88	4.14	95.86	,	0.30	0.17	99.83	,	1.07	0.59	99.41	,	
						,				,				,	
18	0.00	1	14.50	5.51	94.49	,	0.58	0.32	99.68	,	1.39	0.77	99.23	,	
						,				,				,	
25	0.50	0.71	21.00	7.99	92.01	,	0.81	0.45	99.55	,	2.02	1.12	98.88	,	
						,				,				,	
35	1.00	0.5	33.52	12.75	87.25	,	1.72	0.95	99.05	,	4.39	2.43	97.57	,	
						,				,				,	
45	1.50	0.355	62.38	23.72	76.28	,	15.67	8.62	91.38	,	16.80	9.30	90.70	,	
						,				,				,	
60	2.00	0.25	104.85	39.88	60.12	,	38.61	21.25	78.75	,	47.47	26.28	73.72	,	
						,				,				,	
80	2.50	0.18	180.16	68.52	31.48	,	115.00	63.29	36.71	,	115.01	63.68	36.32	,	
						,				,				,	
120	3.00	0.125	226.00	85.95	14.05	,	166.37	91.56	8.44	,	167.89	92.95	7.05	,	
						,				,				,	
170	3.50	0.09	255.55	97.19	2.81	,	175.92	96.81	3.19	,	176.04	97.46	2.54	,	
						,				,				,	
200	3.75	0.075	256.61	97.60	2.40	,	176.34	97.04	2.96	,	176.41	97.67	2.33	,	
						,				,				,	
230	4.00	0.063	256.91	97.71	2.29	,	176.40	97.08	2.92	,	176.47	97.70	2.30	,	
						,				,				,	
PAN			257.22	97.83		,	176.40	97.08		,	176.50	97.72		,	
SIEVE LOSS	0.30					0.55					0.84				
WEIGHTED AVE (mm)	0.360					0.190					0.206				
SILT-CLAY %	2.29					2.65					1.87				

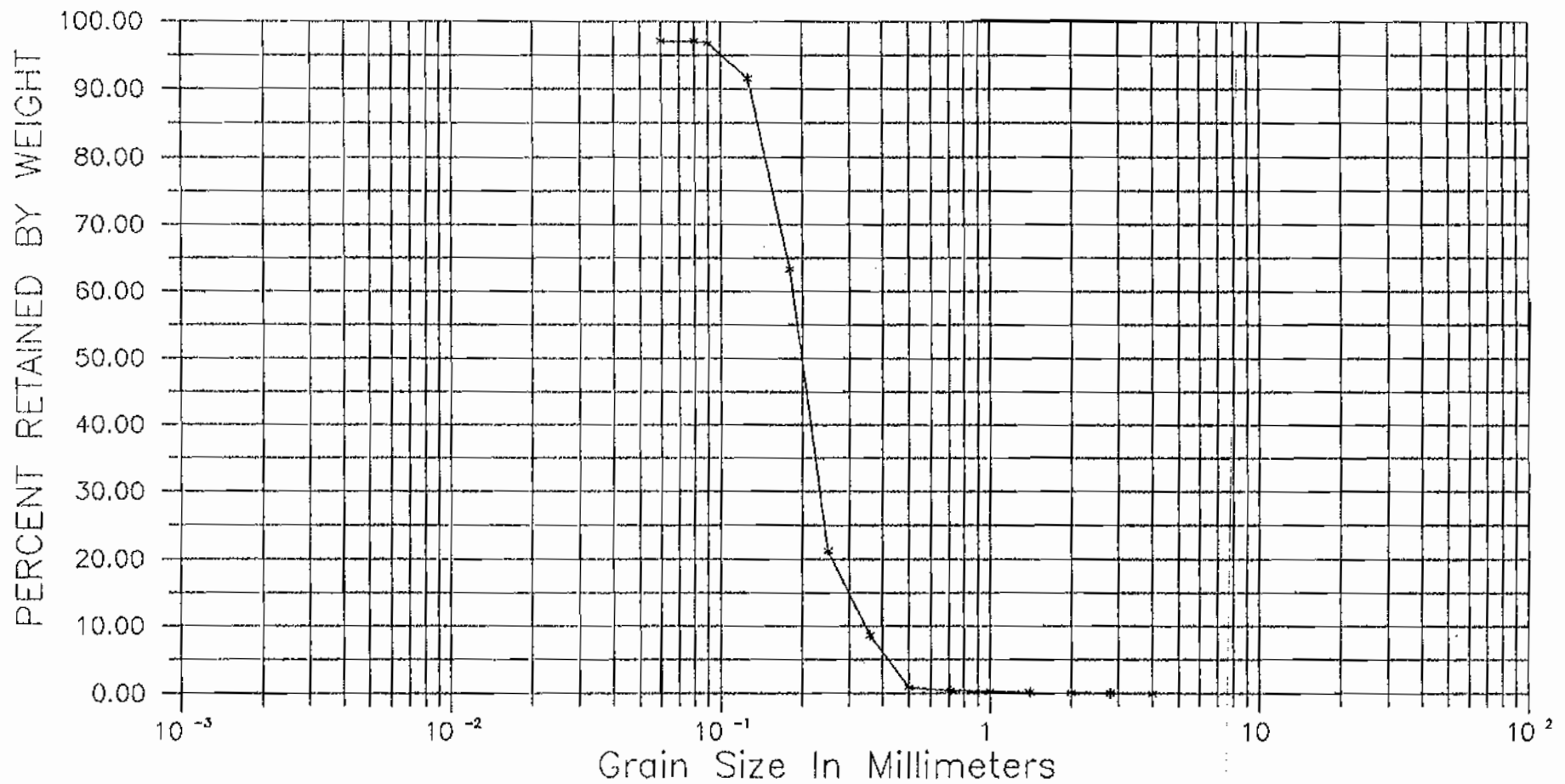
GRADATION ANALYSIS REPORT
PALM BEACH VIBRACORE SAMPLES DECEMBER 1987

FOR: X SOIL CLASSIFICATION X CORING SAMPLES BEACH SAMPLES CONCRETE AGGREGATES

ENVIRONMENTAL STATION NATURAL SOIL FILL SAMPLES PIT SAMPLES

CORE NO.	8					8					9				
SAMPLE DEPTH (FT)	13.7					19.0					3.2				
U.S.C.S.	SP					SP					SP				
DESCRIPTION															
DRY SAMPLE WT (GRAMS)	235.87					241.82					222.05				
SAMPLE WT AFTER WASH	231.91					237.01					218.45				
SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		GRAMS	% RET.	% PASS		
5	-2.00	4	2.79	1.18	98.82	,	0.00	0.00	100.00	,	2.32	1.04	98.96	,	
7	-1.50	2.8	4.87	2.06	97.94	,	0.11	0.05	99.95	,	2.60	1.17	98.83	,	
10	-1.00	2	9.00	3.82	96.18	,	0.82	0.34	99.66	,	2.78	1.25	98.75	,	
14	-0.50	1.4	15.92	6.75	93.25	,	1.84	0.76	99.24	,	3.26	1.47	98.53	,	
18	0.00	1	30.31	12.85	87.15	,	3.51	1.45	98.55	,	4.26	1.92	98.08	,	
25	0.50	0.71	47.95	20.33	79.67	,	6.41	2.65	97.35	,	5.61	2.53	97.47	,	
35	1.00	0.5	77.83	33.00	67.00	,	13.72	5.67	94.33	,	10.51	4.73	95.27	,	
45	1.50	0.355	101.78	43.15	56.85	,	28.47	11.77	88.23	,	25.51	11.49	88.51	,	
60	2.00	0.25	120.08	50.91	49.09	,	68.41	28.29	71.71	,	68.81	30.99	69.01	,	
80	2.50	0.18	189.55	80.36	19.64	,	163.86	67.76	32.24	,	161.10	72.55	27.45	,	
120	3.00	0.125	222.10	94.16	5.84	,	211.10	87.30	12.70	,	201.40	90.70	9.30	,	
170	3.50	0.09	230.51	97.73	2.27	,	235.39	97.34	2.66	,	217.05	97.75	2.25	,	
200	3.75	0.075	231.05	97.96	2.04	,	236.61	97.85	2.15	,	217.80	98.09	1.91	,	
230	4.00	0.063	231.23	98.03	1.97	,	236.90	97.97	2.03	,	217.91	98.14	1.86	,	
PAN			231.30	98.06		,	236.99	98.00		,	218.30	98.31		,	
SIEVE LOSS	0.61					0.02					0.15				
WEIGHTED AVE(mm)	0.464					0.217					0.252				
SILT-CLAY %	1.78					2.15					1.85				

MECHANICAL ANALYSIS CHART



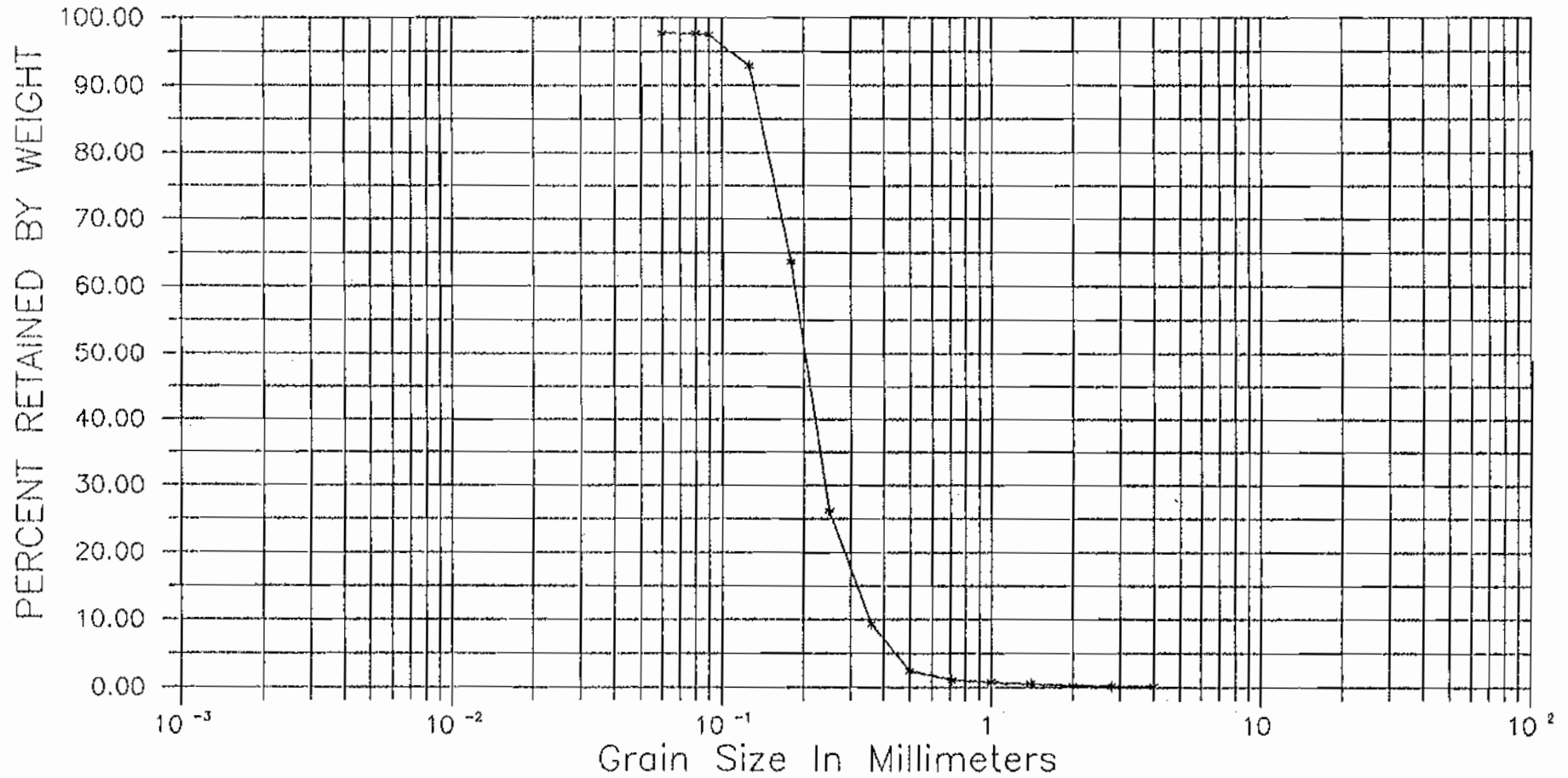
SILT OR CLAY		SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

8	MEAN	MEDIAN	SORTING
2'	0.21 mm	0.20 mm	1.8
	0.20	0.21 mm	1.50
	GREY POORLY GRADED SAND - (SP)		

MECHANICAL ANALYSIS CHART



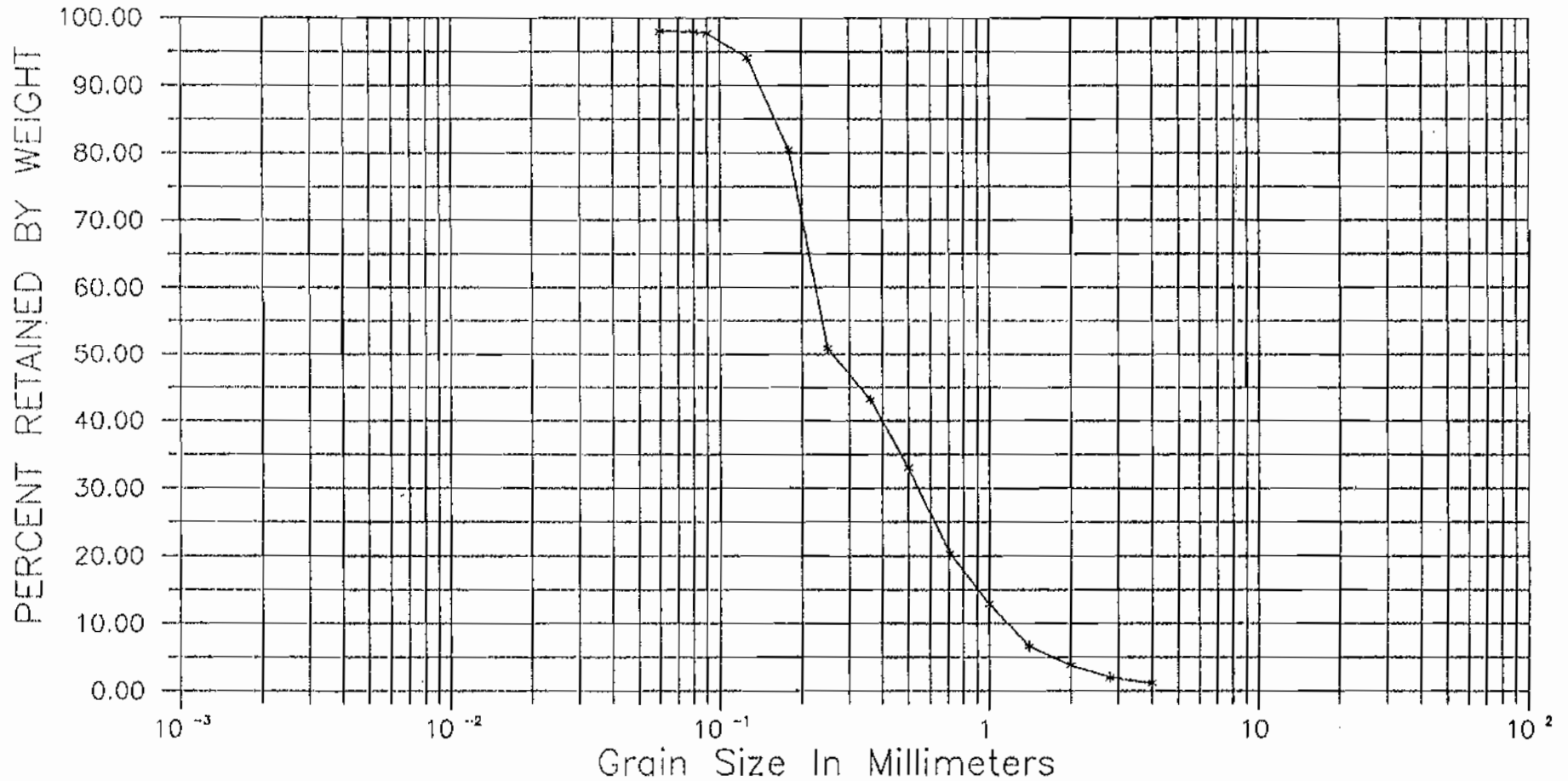
SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

8	MEAN	MEDIAN	SORTING
8'	2.1mm	2.0mm	55
	.21mm	.20mm	.50
	GREY POORLY GRADED SAND - (SP)		

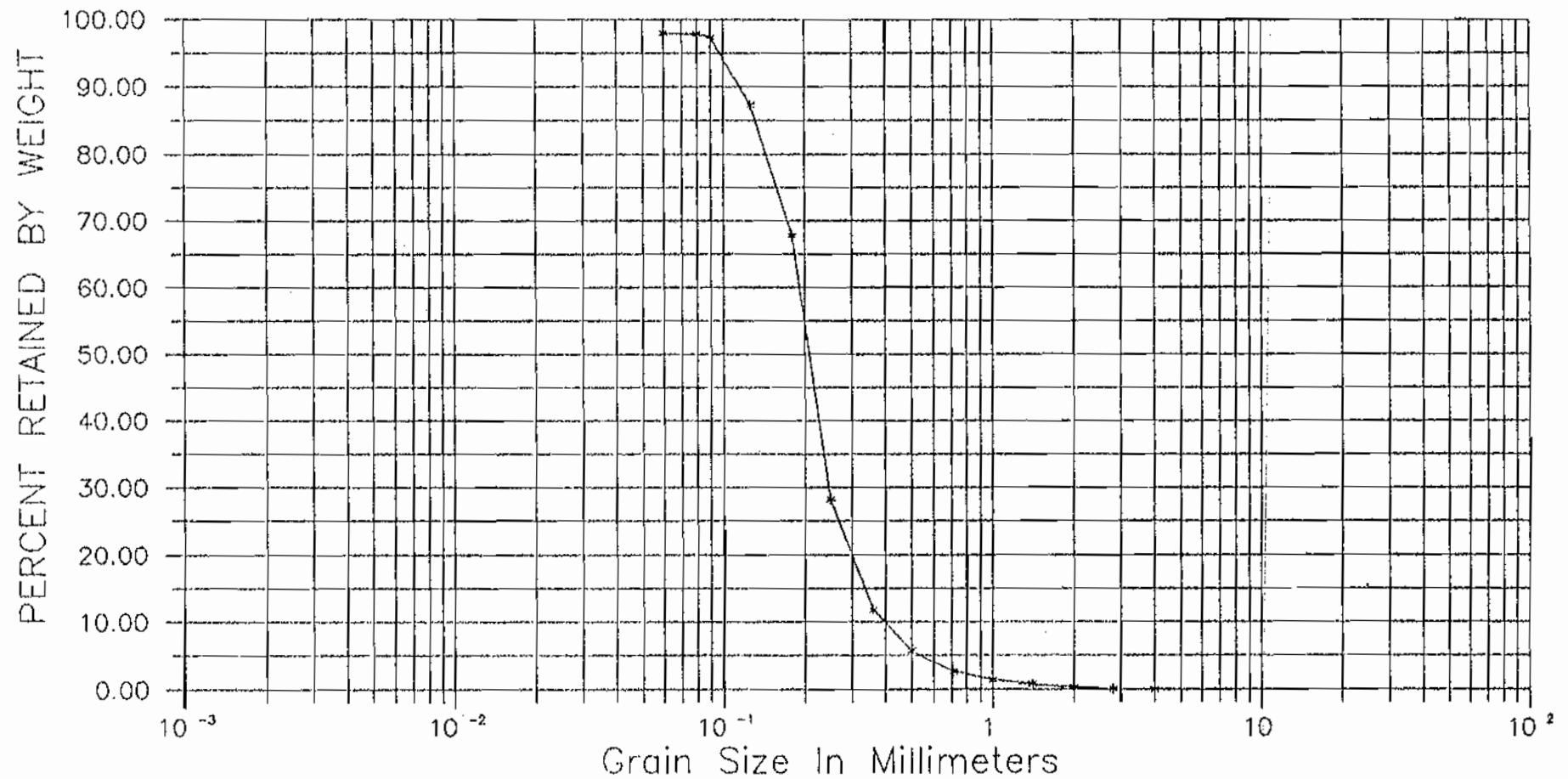
MECHANICAL ANALYSIS CHART



SILT OR CLAY	SAND			GRAVEL	
	FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.	CLASSIFICATION		
8	MEAN	MEDIAN	SORTING
13.7'	.34mm	.26mm	1.22
	.33mm	.25mm	1.24
	GREY POORLY GRADED SAND & SHELL FRAGMENTS (SP)		

MECHANICAL ANALYSIS CHART



SILT OR CLAY		SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

SAMPLE NO.

CLASSIFICATION

8	MEAN	MEDIAN	SORTING
19.0'	22 mm	21 mm	.65
	.21 mm	.21 mm	.65
	GREY POORLY GRADED SAND - (SP)		